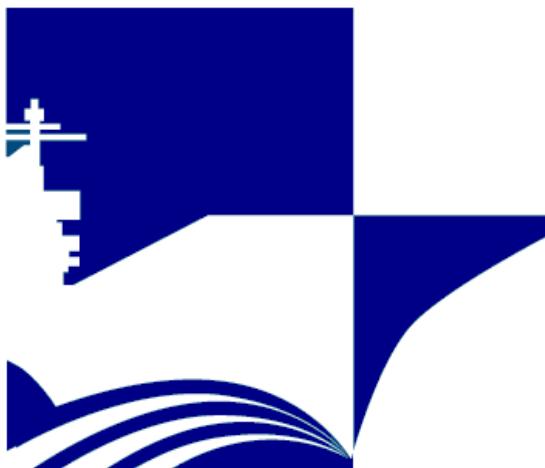




REVOLUTION
IN BUSINESS
AFFAIRS



PRESENTATION TO:
DON RIC
27 June 2001

SMART Project Office



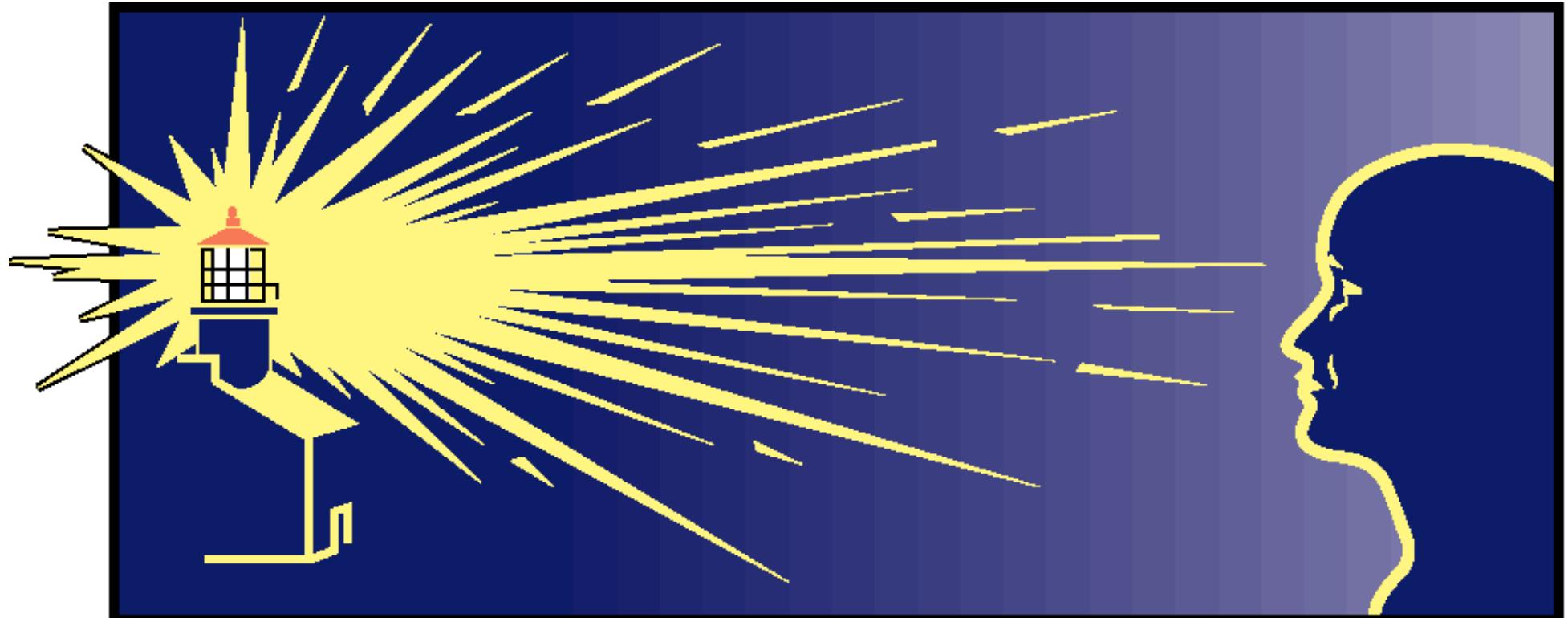
NAVY ERP PILOTS

Pilot Core	Sponsor	Explore ERP Business Processes to Improve:	S/W
Program Management (SIGMA)	NAVAIR SAP	Program Management Process to include linkage between contracting and financial systems	
Warfare Center Management NWCF Financial Management (CABRILLO)		SPAWAR SAP Process	
Aviation Supply Chain / Maintenance Management (SMART)	NAVSUP / NAVAIR	Maintenance Planning and Material Ordering Processes (O, I, D level and NAVICP)	SAP

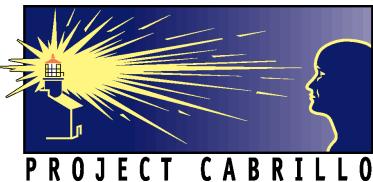
Regional Maintenance Led by NAVSEA / Regional Maintenance (NEMAS)
• Each pilot is 12 - 18 months

- NAVAIR and NAVSUP / NAVAIR Pilots use E-2 data as “proof of concept”

SPAWAR NAWC NSWC NADEP NAVAUD DFAS



PROJECT CABRILLO



PROJECT DESCRIPTION

- **Core Business Functional Areas**

- Financial Management
 - **All financial activities including budgets, funds management, billings, payables, reporting and employee data**
- Procurement Management
 - **All buying activities for MRO items, from issuing PO, receipt of goods and processing vendor invoices**
- Asset Management
 - **Includes both real property and improvements. Tracks all assets from acquisition to disposal.**
- Project / Program Management
 - **Fully integrated project management system that ties together project management tools with finance, budgeting, procurement and asset management data**
- Strategic Management
 - **Planning and budgeting tool for both annual and long range planning. Will build upon annual budgeting / planning needs to develop a long range orientation for SSC-SD.**



Project Plan - Wave 1

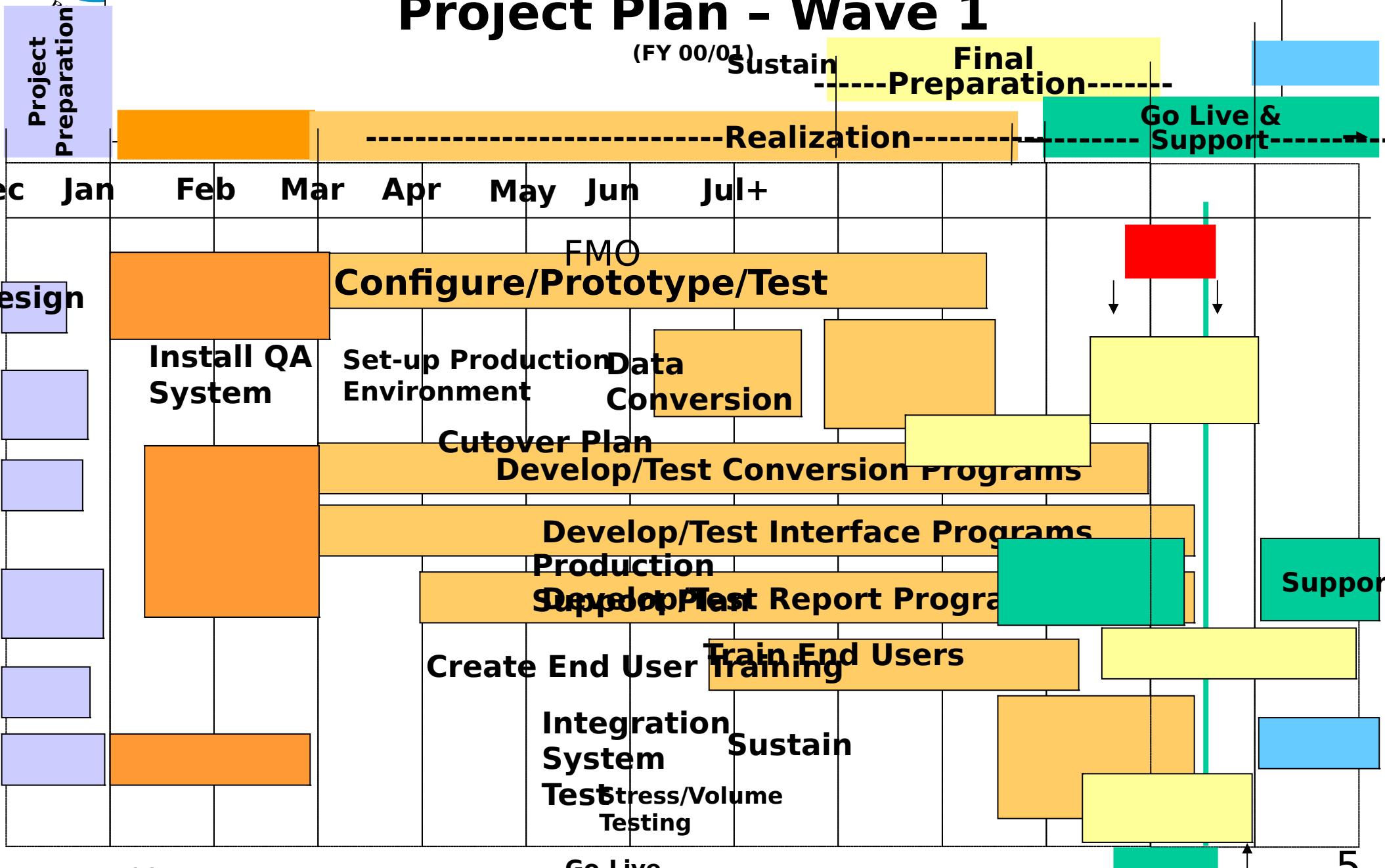
(FY 00/01)

Sustain

Final

Preparation

Go Live & Support



Naval Supply Systems Command

Naval Air Systems Command

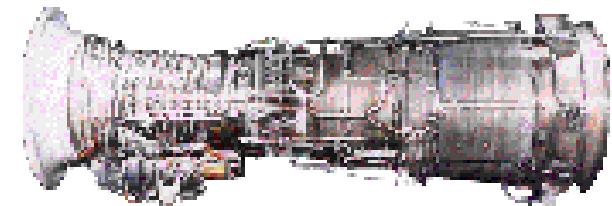


Supply Maintenance Aviation Reengineering Team



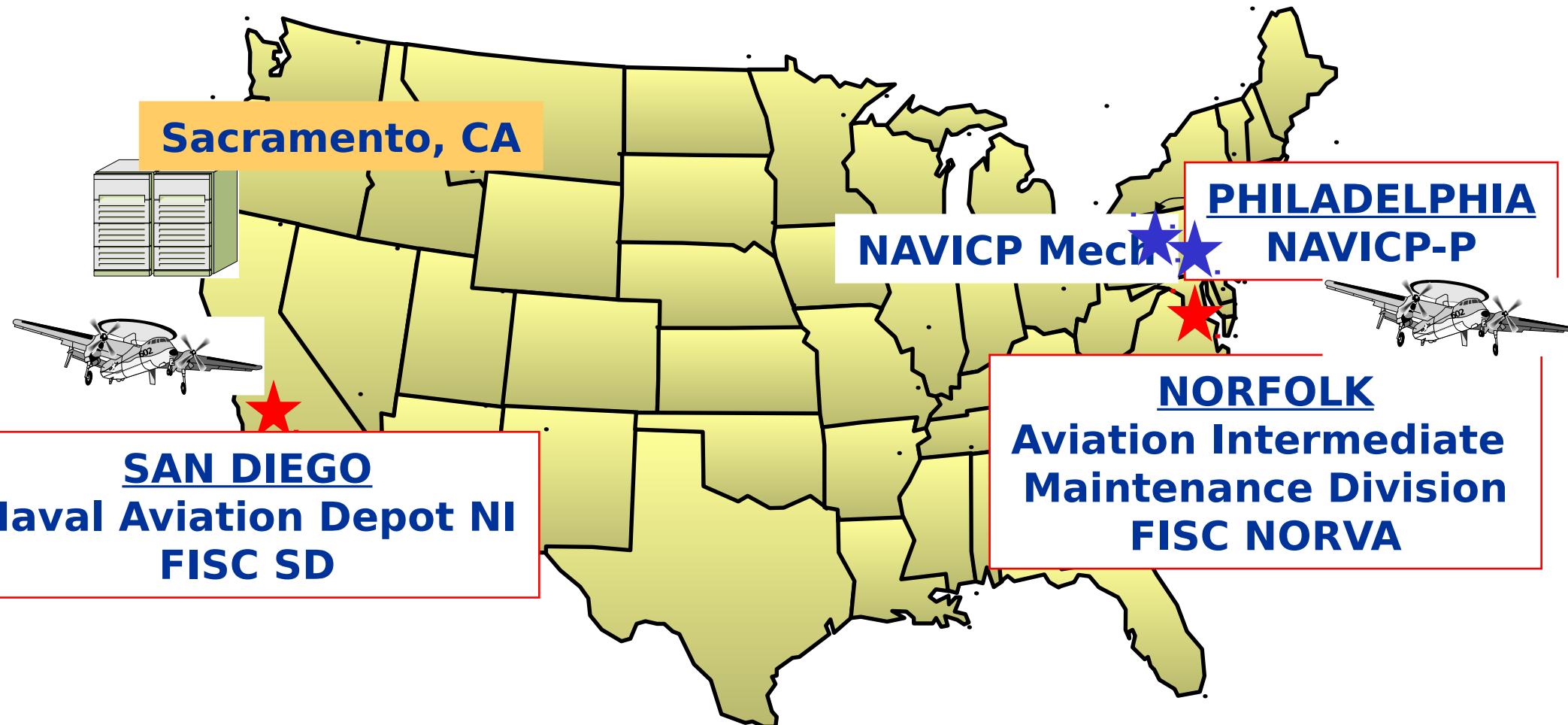
SMART OVERVIEW

- **Jointly sponsored by NAVSUP and NAVAIR**
 - Phase I Study. . . Phase II Pilot. . . Phase III Enterprise Roll-out
- **E-2C Hawkeye I-Level maintenance with NALCOMIS OOMA and Depot interfaces**
 - E-2C Airframe, components (not including T-56 engine)
 - Activities. . . VAW-120, AIMD/ASD Norfolk, FISC Norfolk / San Diego, NADEP North Island
- **LM-2500 Gas Turbine Engine (interfaces to D-Level maintenance)**
 - Modules and components
 - Activities. . . NADEP North Island





Phase II Location

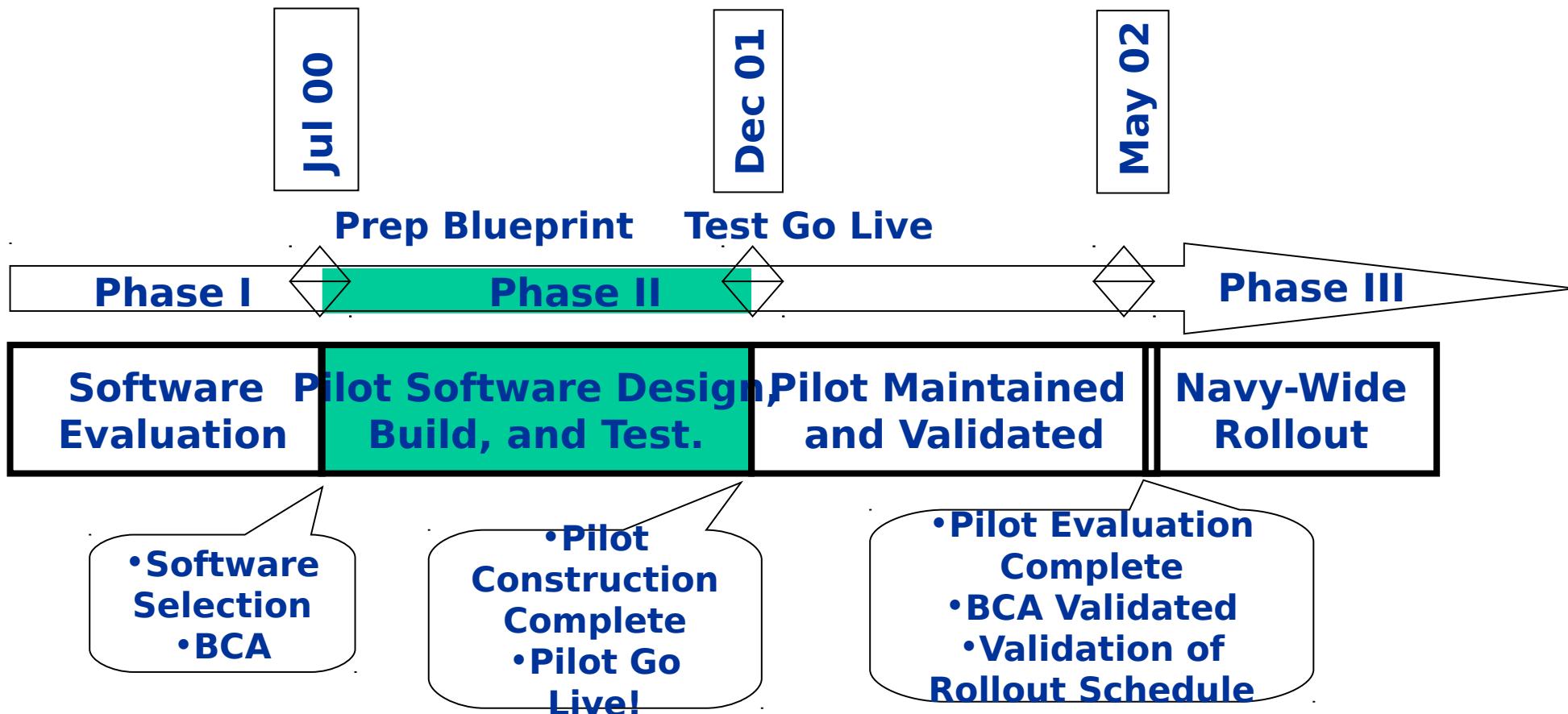


NAVICP= Naval Inventory Control Point

FISC= Fleet Industrial Support Center



SMART Timeline



NAVAL AVIATION SYSTEMS



Sigma Project

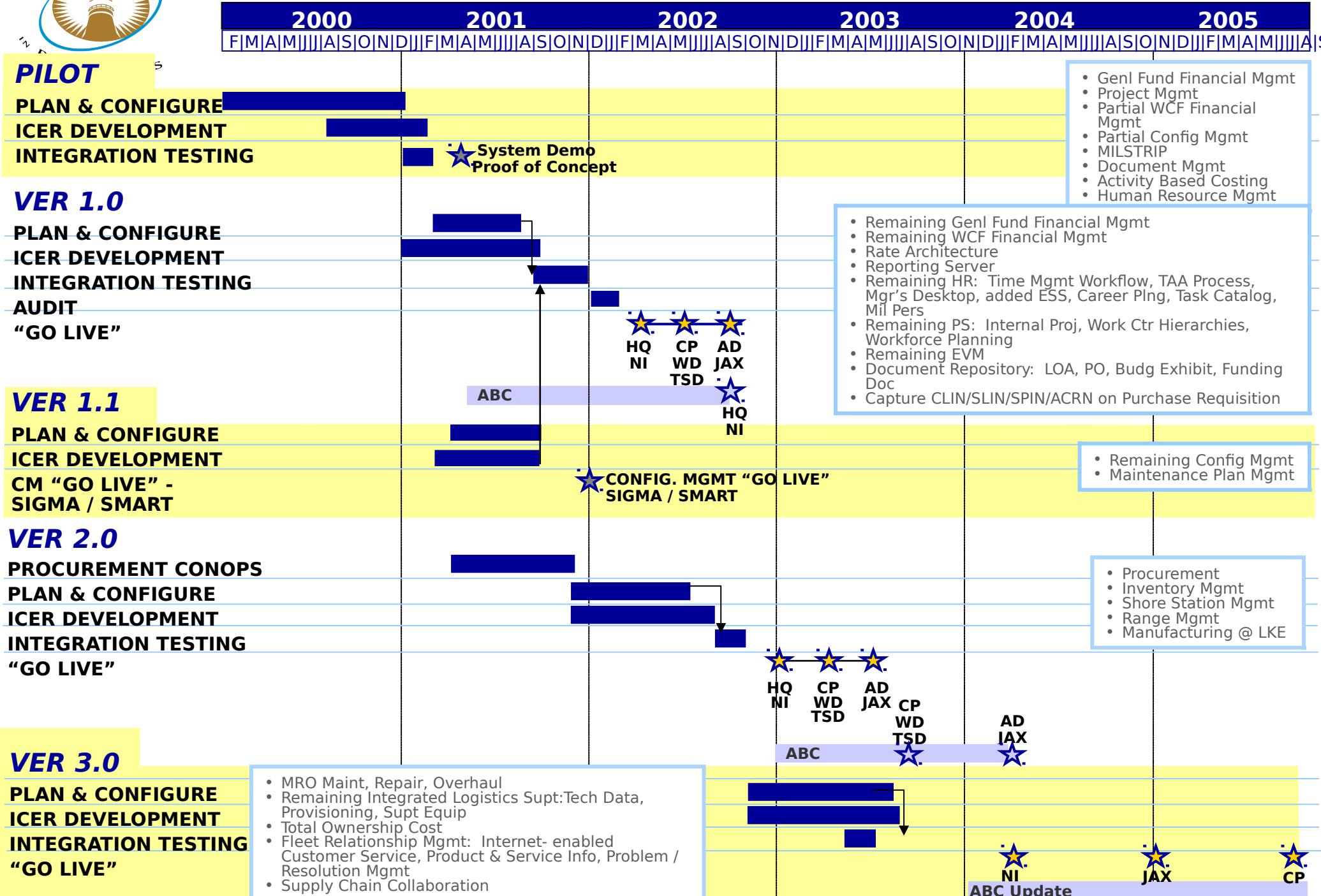
*Bringing the NAVAIR TEAM
together through Σ RP*

PROGRAM MANAGEMENT SUMMARY

- **Program Management Functional requirements:**
 - Planning and Scheduling
 - Financial Management
 - Human Resource Management
 - Configuration Management / Asset Tracking
 - Limited Procurement
- **NAVAIR business processes will be reengineered within the bounds of SAP's best commercial practices**
- **Best practices, not current practices, will be implemented**
- **The SAP software will be implemented with no code modifications**



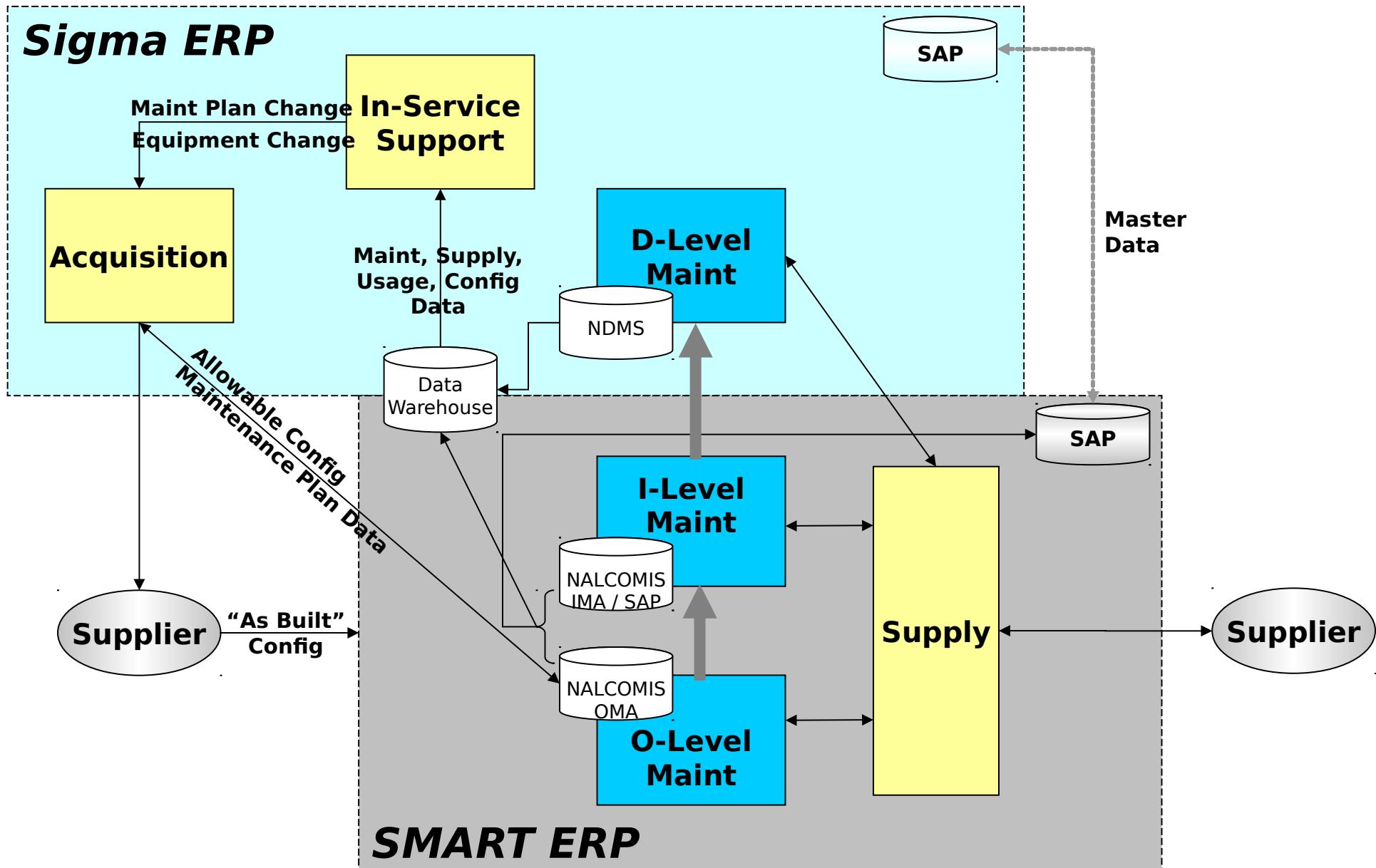
SIGMA DEPLOYMENT SCHEDULE

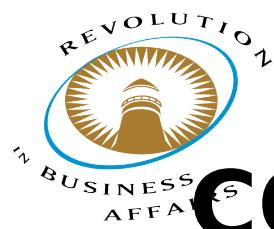




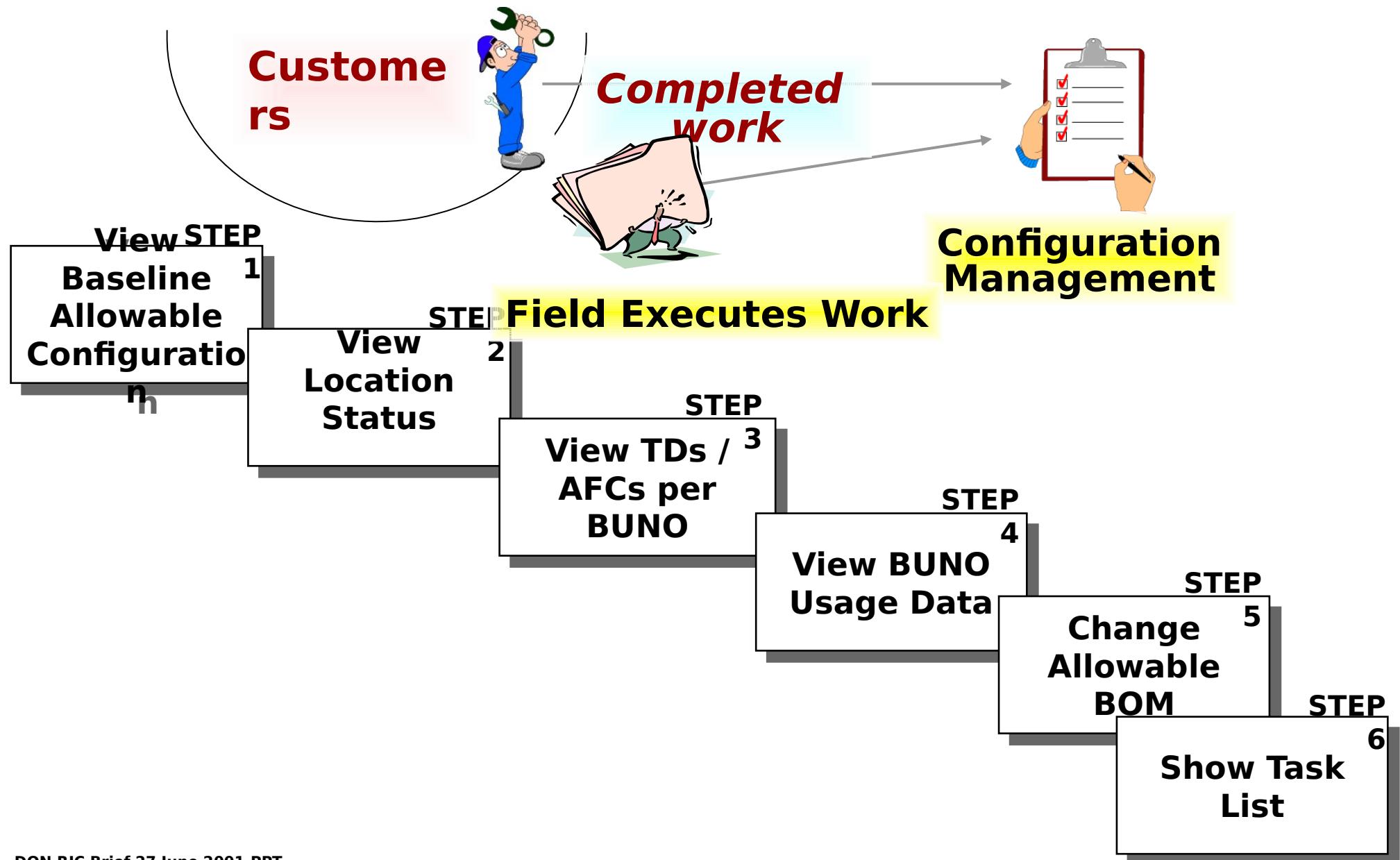


NAVAL AVIATION CONFIG & MAINT MANAGEMENT



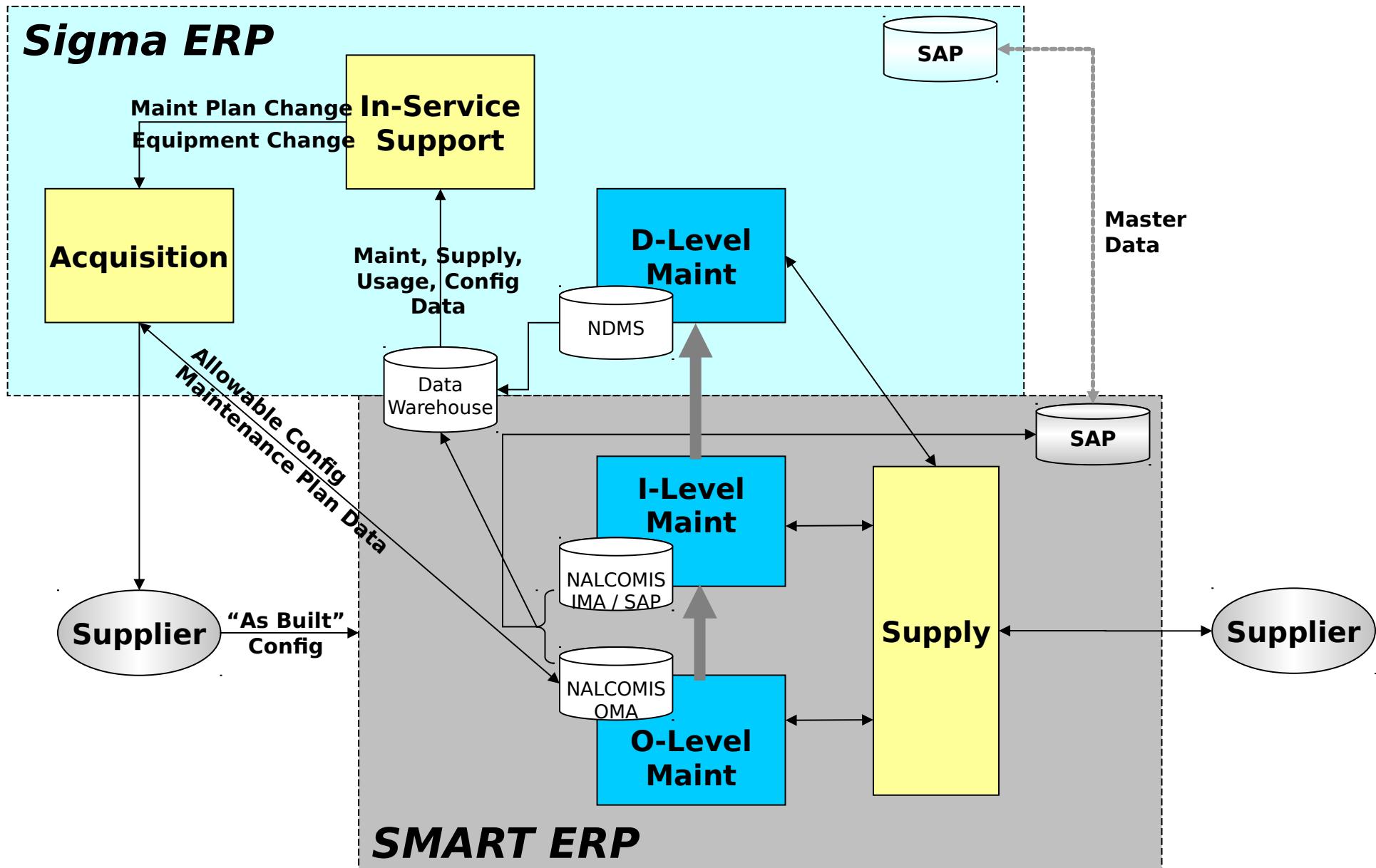


SUMMARY DESCRIPTION: CONFIGURATION MANAGEMENT





NAVAL AVIATION CONFIG & MAINT MANAGEMENT

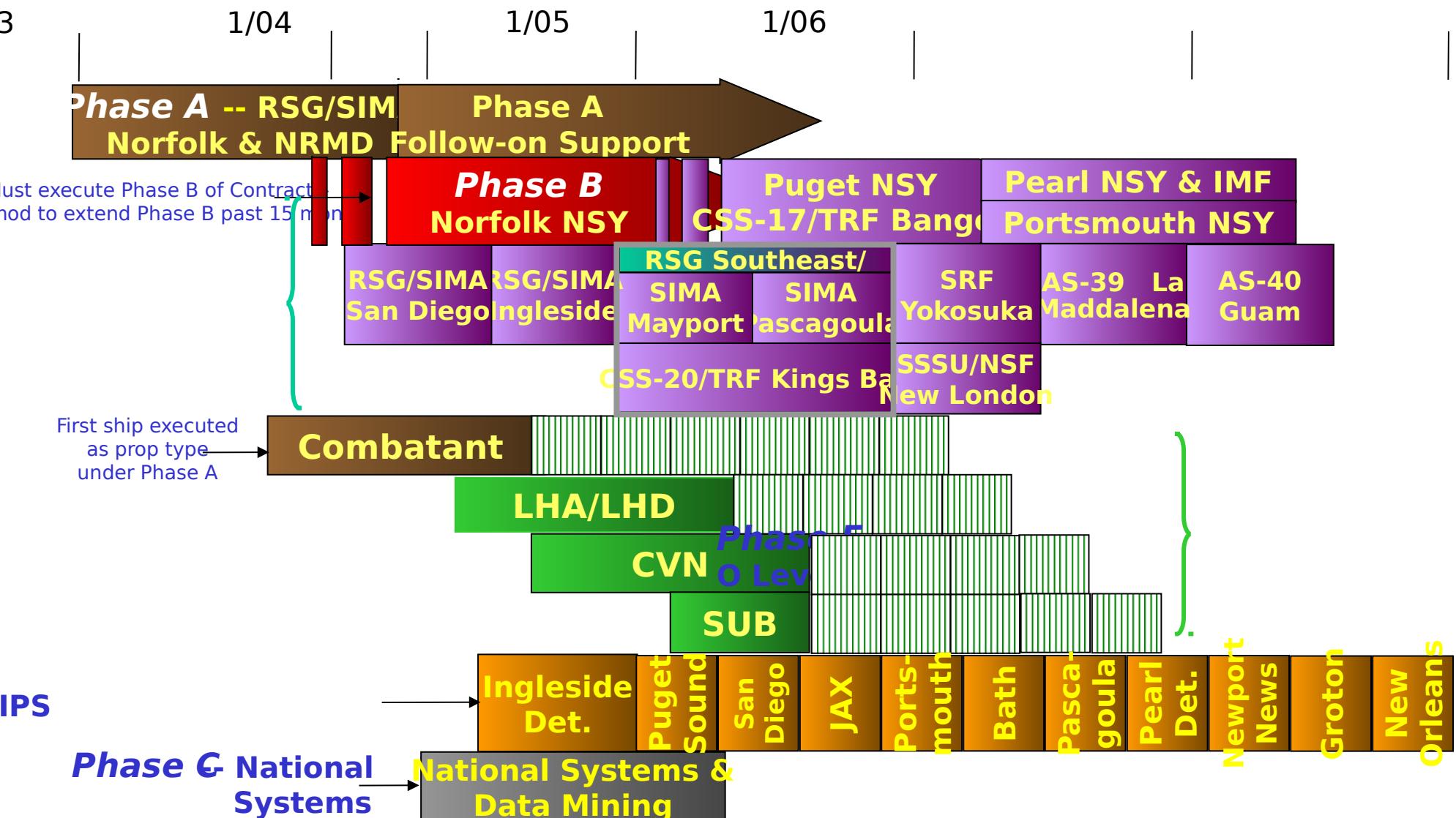




Regional Maintenance ERP (NEMAIS) A Joint Fleet - NAVSEA Initiative



Schedule: Notional Deployment



ON-GOING EFFORTS

- **Master Data Meeting - 28 June @ WLO 1000**
- **IWAR (N814) Assessments underway; Visits scheduled as follows:**
 - **Cabrillo 20 June San Diego, CA** ✓ Complete
 - **Sigma 17 July Pax River, MD**
 - **SMART 18 July Mechanicsburg, PA**
 - **NEMAIS 20 July Norfolk, VA**
- **Configuration Management in SAP**
- **Cooperating with German MoD - Deployable Instance**
- **CNA ERP REPORT ISSUED - Feb 2001**
- **PBD 818 - Funding for DFAS Financial System**

ICB Members

Ms. Iona Evans
ERP Corporate Executive
Naval Sea Systems Command

Mr. Mike Petz
Program Manager - NETS
Naval Sea Systems Command

Mr. Dennis Distler
Enterprise Solutions Program
Office (ESPO) Executive Director
Naval Air Systems Command

Mr. Kevin Fitzpatrick
Co-Program Manager - SMART
Naval Supply Systems Command

Mr. Edward Chermansky (Acting)
Co-Program Manager - SMART
Naval Air Systems Command

Mr. Rick Pierson
Program Manager - CABRILLO
SPAWAR Systems Center - San
Diego

ICB Staff

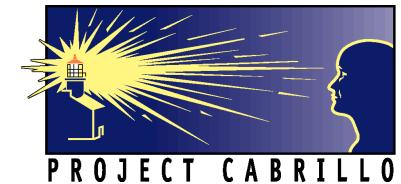
Mr. Greg Huntington
ESPO - SIGMA
Naval Air Systems Command

Mr. Stan Beiter
SMART
Naval Supply Systems Command

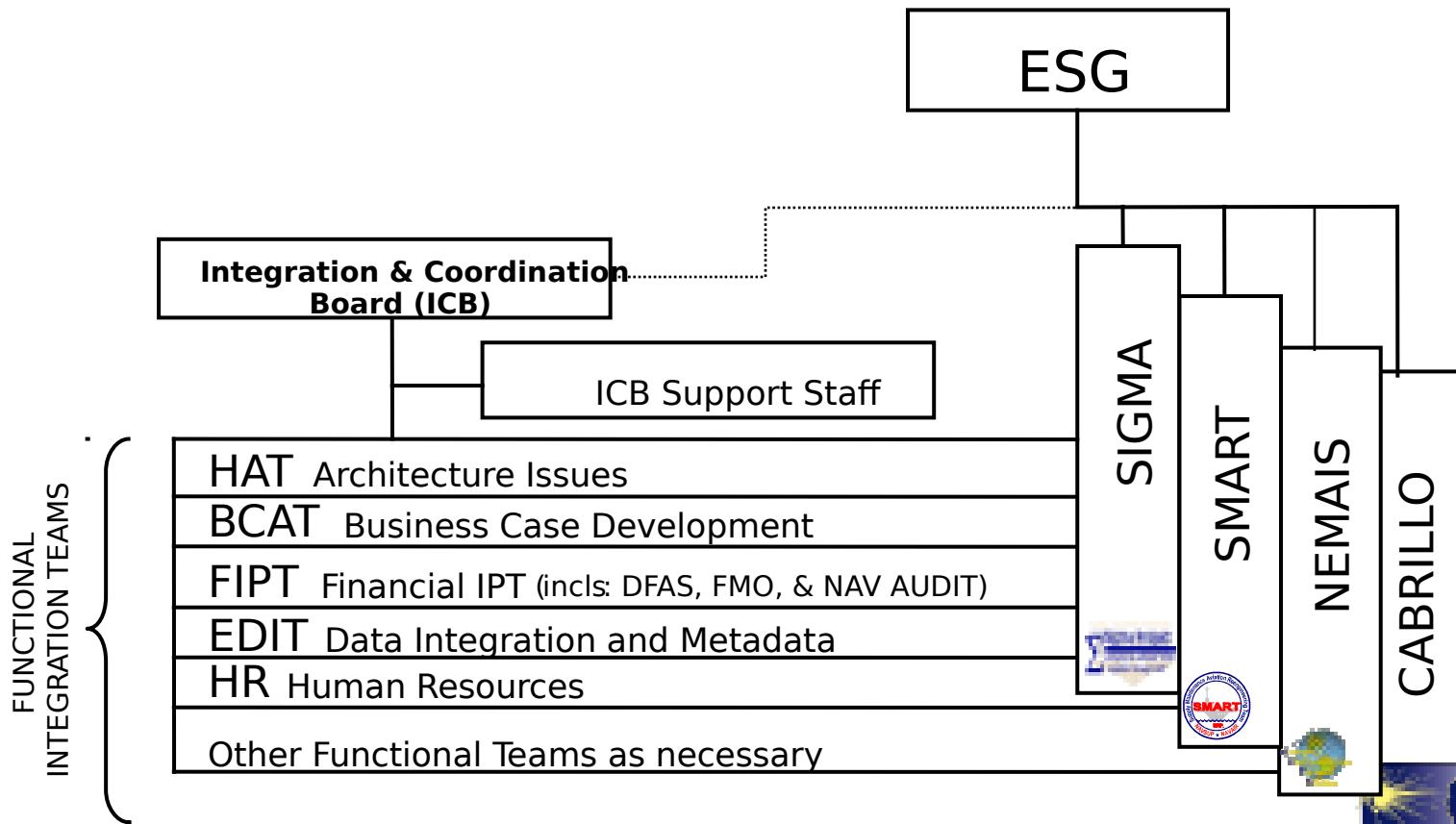
Mr. Dave Noble
ERP Corporate Office
Naval Sea Systems Command

Ms. Gale Pennoyer
CABRILLO
SPAWAR Systems Center - San
Diego

Integration and Coordination Board (ICB)



ICB INTEGRATION TEAM STRUCTURE





ICB Direct Support (Item 1.0)

ICB Direct Support (items 1.1 - 1.5):

- Coordinate with ESG Secretariat
- Coordinate Strategic Planning
- Oversee Technical Advisory Services
- Coordinate User Groups
- Perform governance (sub-teams, contractors, tracking issues, etc.)





Sr Tech Advisory Svcs (Item

2.0)

Advisory Services:

- Engage industry expert(s) to assist in identifying ERP environment data commonality, configuration management, and security requirements.
 - Provides immediate assistance to on-going teams.
 - First efforts will focus on weapon system asset CM and master data coordination requirements.

Technical Studies:

- Navy ERP Interoperability Project.
 - Concept involves developing a Business Process Architecture that projects can reference to help achieve interoperability requirements.





Navy ERP Model (Item 3.0)

1

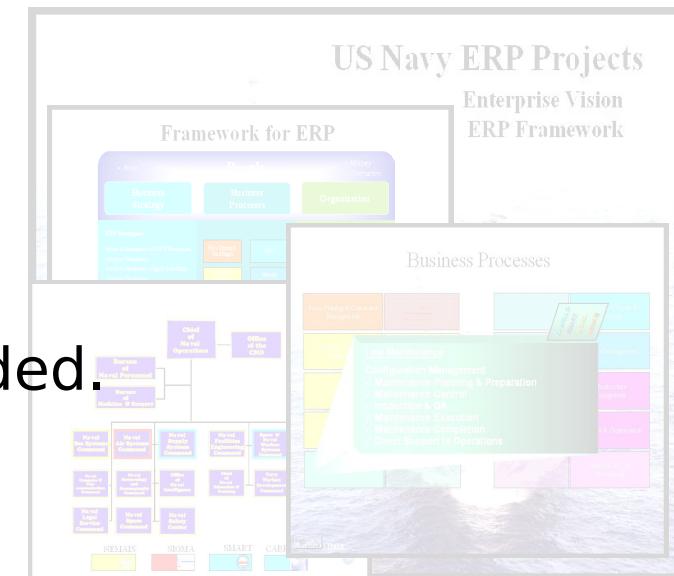
Maintain the Navy ERP Model (item 3.10):

- 1st generation Navy ERP Model needs to be completed.
- Update DEIG solution map during next workshop - June 01.

Vision framework (item 3.20):

- Vision Presentation for July ESG.
 - ✓ Projects business processes needed.
 - ✓ Projects deployments needed.
- Next step ... business strategies, people & security

Note: Funded by NAVSEA Corporate ERP.





Contractor Support for Teams (Item 4.0)

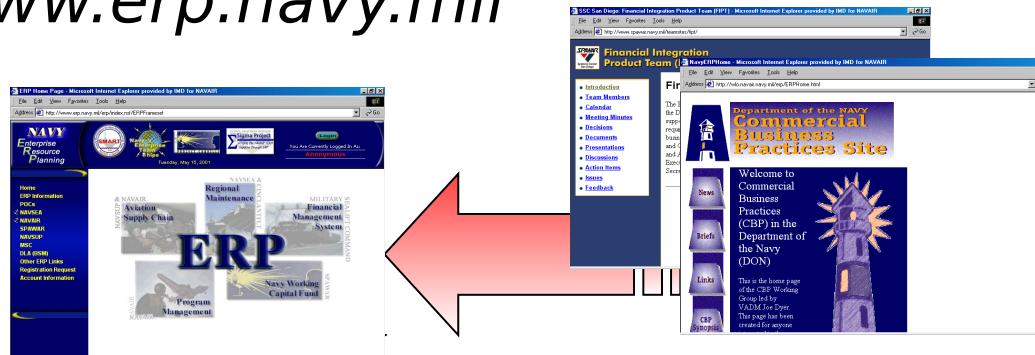
- Contractor Support for ICB & teams:
 - ICB & EDIT support through NAVAIR BPA.
 - HAT/Security... investigating using SPAWAR at WNY.
 - FIPT (Note: already funded through 31 Dec 01)



G&A Support / Other (Items 5.0 & 6.0)

Item (5.0):

■ Consolidating ESG and FIPT websites into ICB's: *www.erp.navy.mil*



Item (6.0):

- Funding DFAS Legacy system analysis (\$136k annually)
Remainder 2001 calendar year - \$68k.

Note: 2 - Note: SOW & estimated travel expenses have been requested.
Does not include Website funded by NAVSEA Corporate ERP.

EQUIPMENT MASTER

Equipment Edit Goto Extras Structure Environment System Help

Display Equipment : General data

BuNo

Attributes

Equipment	165295	Category	A	Aircraft
Description	AIRBORNE EARLY WARNING			
Status	AVLB	FMC	IN-S	
Valid from	12/14/2000	Valid to	12/31/9999	
General Location Organization Structure SerData Buno Info1				
General data				
Class				
FleetObjectType	AEBC	E-2C		
AuthorizGroup	CNAP	COMNAVAIRPAC		
Weight	0.000	Size/dimension		
Inventory no.				
Start-up date	12/10/1997			
Reference data				
AcquisValue	0.00	Acquistn. date	12/10/1997	
Manufacturer data				
Manufacturer	GRUMMAN	ManufCountry	US	
Model number	E2C	Constr.yr/mth	1997	/ 12
ManufPartNo.				
ManufSerialNo.	A166			



ALLOWABLE CONFIGURATION

Material Structure: Structure List

			id from	04/16/01
<input type="checkbox"/>	50E2200000	TURBOSHAFT ENGINE		
<input type="checkbox"/>	50E223DUH0	TURBINE ROTOR ASSEMBLY		1 EA
<input type="checkbox"/>	50E223DUH1	1ST STAGE TURBINE WHEEL ASSEMBLY *		1 EA
	2840000127	WHEEL ASSEMBLY		1 EA
	2840001415	WHEEL ASSEMBLY		1 EA
	2840012881	WHEEL ASSEMBLY		1 EA
<input type="checkbox"/>	50E223DUH2	TURBINE 1ST-2ND STAGE SPACER ASSY *		1 EA
	2840000127040	TURBINE 1ST-2ND STAGE SPACER ASSY		1 EA
	5365012887651	SPACER ASSY		1 EA
	5365013693241	SPACER ASSY		1 EA
<input type="checkbox"/>	50E223DUH3	ASSEMBLY *		1 EA
	2840000127060	2ND STAGE TURBINE WHEEL ASSEMBLY		1 EA
	2840012885090	2ND STAGE TURBINE WHEEL ASSEMBLY		1 EA
<input type="checkbox"/>	50E223DUH4	TURBINE 2ND-3RD STAGE SPACER ASSY *		1 EA
	2840000110693	TURBINE 2ND-3RD STAGE SPACER ASSY		1 EA
	2840013397547	TURBINE 2ND-3RD STAGE SPACER ASSY		1 EA
	5365013693242	TURBINE 2ND-3RD STAGE SPACER ASSY		1 EA
<input type="checkbox"/>	50E223DUH5	3RD STAGE TURBINE WHEEL ASSEMBLY *		1 EA
	2840000127065	3RD STAGE TURBINE WHEEL ASSEMBLY		1 EA
	2840012957560	3RD STAGE TURBINE WHEEL ASSEMBLY		1 EA
<input type="checkbox"/>	50E223DUH6	TURBINE 3RD-4TH STAGE SPACER ASSY *		1 EA
	2840000127055	TURBINE 3RD-4TH STAGE SPACER ASSY		1 EA

WRA

SRA

NSN



ALLOWABLE CONFIGURATION

SAP

Material Structure: Structure List

Material desc. DIRECTIONAL FLT CONTROLS/LIFT SYSTEMS

Valid from 0000-07-01

Material	Component desc.	Valid from	Quantity	Unit
50E1400000	DIRECTIONAL FLT CONTROLS/LIFT SYSTEMS	0000-07-01	1	EA
50E14F1000	ELEVATOR CONTROL SYSTEM		1	EA
50E14F1100	ELEVATOR SYSTEM RIGGING		1	EA
50E14F1200	ELEVATOR MECHANICAL LINKAGE		1	EA
50E14F1300	ELEVATOR FEEL/TRIM SYSTEM		1	EA
50E14F1400	ELEVATOR HYDRAULIC		1	EA
50E14F1410	ELEVATOR ACTUATOR		1	EA
1650001068508	ELEVATOR TRIM ACTUATOR (ALUMINUM)		1	EA
1650009998050	ELEVATOR TRIM ACTUATOR (ALUMINUM)		1	EA
16500013848736	ELEVATOR TRIM ACTUATOR (ALUMINUM)		1	EA
1680014370498	ELEVATOR TRIM ACTUATOR (STEEL)		1	EA
50E14F1420	ELEVATOR SYSTEM CHECK VALVE, PRESSURE L		1	EA
50E14F1430	"ELEVATOR SYSTEM CHECK VALVE, PRESSURE L		1	EA
50E14F1440	"ELEVATOR SYSTEM HOSE ASSY, PRESSURE LIN		1	EA
50E14F1500	ELEVATOR SYSTEM ELECTRICAL		1	EA
50E14F1600	ELEVATOR SURFACE		1	EA
50E14F2000	RUDDER CONTROL SYSTEM		1	EA
50E14F3000	AILERON CONTROL SYSTEM		1	EA

Directional Flight Control

Elevator

Aluminum

New steel components added after TD incorporation

QAS (1) (020) sapqas INS

Display Document: Basic Data Tech Directive (TD)

Document

Document 100000000007 Part 000 Version 01

◆ Deletion ind. ◆ CAD indicator ◆ Document setting ◆ Hierarchy

Document data Descriptions Object links Originals

Document data

Description TDC-50-433 E2C Airframe Change No. 433

Document status I Incorporated 02/26/2001...

User PERREGOML Mike Perrego

Laboratory/office

Change number Valid from

Authorization group

Superior document

Document Type Part Version

Originals

Appl. Application Storage cat.

PDF E2C Airframe Change No. TDC 050-433

Aircraft Incorporated On

Airframe Change #433

Display Document: Basic Data Tech Directive (TD)

Document

Document 100000000007 Part 000 Version 01

◆ Deletion ind. ◆ CAD indicator ◆ Document setting ◆ Hierarchy

Document data Descriptions Object links Originals

Equipment master

Equipment	ShortTxt
160009	AIRBORNE EARLY WARNING
161782	AIRBORNE EARLY WARNING
162616	AIRBORNE EARLY WARNING
162618	AIRBORNE EARLY WARNING
162798	AIRBORNE EARLY WARNING
163026	AIRBORNE EARLY WARNING
163028	AIRBORNE EARLY WARNING
163537	AIRBORNE EARLY WARNING
163538	AIRBORNE EARLY WARNING
163695	AIRBORNE EARLY WARNING
163698	AIRBORNE EARLY WARNING
164108	AIRBORNE EARLY WARNING
164352	AIRBORNE EARLY WARNING
164483	AIRBORNE EARLY WARNING
164485	AIRBORNE EARLY WARNING
164493	AIRBORNE EARLY WARNING



TD's ON BuNo 165295

Product Structure: Validity date 04/15/2001

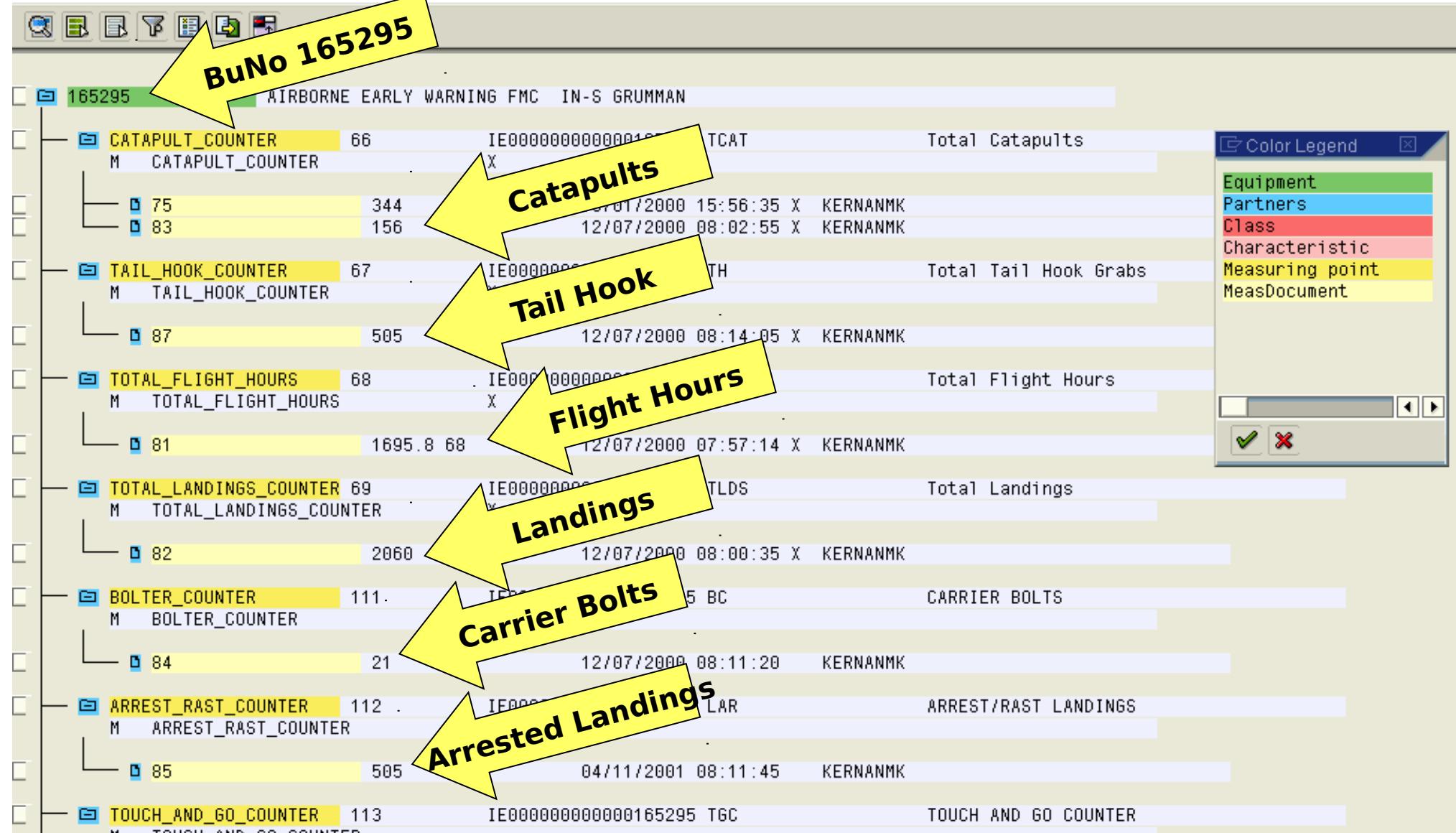
Product structure	Descript.
▷ 161782	AIRBORNE EARLY WARNING
▷ 162616	AIRBORNE EARLY WARNING
▷ 162618	AIRBORNE EARLY WARNING
▷ 162798	AIRBORNE EARLY WARNING
▷ 163026	AIRBORNE EARLY WARNING
▷ 163028	AIRBORNE EARLY WARNING
▷ 163537	AIRBORNE EARLY WARNING
▷ 163538	AIRBORNE EARLY WARNING
▷ 163695	AIRBORNE EARLY WARNING
▷ 163698	AIRBORNE EARLY WARNING
▷ 164108	AIRBORNE EARLY WARNING
▷ 164352	AIRBORNE EARLY WARNING
▷ 164483	AIRBORNE EARLY WARNING
▷ 164485	AIRBORNE EARLY WARNING
▷ 164493	AIRBORNE EARLY WARNING
▷ 164497	AIRBORNE EARLY WARNING
▷ 165295	AIRBORNE EARLY WARNING
▷ Subordinate equipments	
▷ Material	
▷ Documents	
▷ TD 100000000007 000 01	TDC-50-433 E2C Airframe Change No. 433
▷ TD 100000000011 000 01	TDC-74-0350 E2C AFB No. 350
▷ TD 100000000012 000 01	TDC-50-370 E2C Airframe Change No. 370
▷ TD 100000000013 000 01	TDC-74-0352 E2C AFB No. 352
▷ TD 100000000014 000 01	TDC-74-0354 E2C AFB No. 354
▷ TD 100000000048 000 01	TDC-50-424 E2C Airframe Change No. 424
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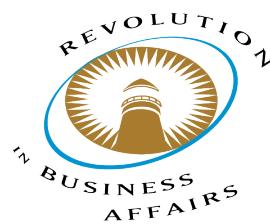
Steel Bodied
Elevator
Actuator



AIRCRAFT USAGE DATA

Multi-Level Equipment List: List of Equipment





Maintenanc e Steps

Change General Task List: Operation Overview

Group 34 A1-E2C2A-NDI-000 Nondestructive Inspect Grp. ct.1

General operation overview

Op...	Sb...	Work ctr	Plnt	Ctrl	Description	L...	Work	Un...
0010		PAX1	1001	PM01	Electrically (static) ground aircraft	<input checked="" type="checkbox"/>		
0020		PAX1	1001	PM01	Prepare aircraft for ground maintenance	<input checked="" type="checkbox"/>		
0030		PAX1	1001	PM01	Prepare Actuator Assembly	<input checked="" type="checkbox"/>		
0030	0010	PAX1	1001	PM01	Remove and retain machine bolts	<input checked="" type="checkbox"/>		
0030	0020	PAX1	1001	PM01	Remove and retain anti-rotation arm	<input checked="" type="checkbox"/>		
0030	0030	PAX1	1001	PM01	Loosen spanner nut	<input checked="" type="checkbox"/>		
0030	0040	PAX1	1001	PM01	Remove Paint	<input checked="" type="checkbox"/>		
0030	0050	PAX1	1001	PM01	Clean inspection areas	<input checked="" type="checkbox"/>		
0030	0060	PAX1	1001	PM01	Move rod end of actuator out	<input checked="" type="checkbox"/>		
0040		PAX1	1001	PM01	Set up, standardize, and calibrate	<input checked="" type="checkbox"/>		
0050		PAX1	1001	PM01	Inspect	<input checked="" type="checkbox"/>		
0080		PAX1	1001	PM01	Tag or Reassemble actuator	<input checked="" type="checkbox"/>		
0090		PAX1	1001	PM01		<input type="checkbox"/>		
0100		PAX1	1001	PM01		<input type="checkbox"/>		
0110		PAX1	1001	PM01		<input type="checkbox"/>		
0120		PAX1	1001	PM01		<input type="checkbox"/>		
0130		PAX1	1001	PM01		<input type="checkbox"/>		
0140		PAX1	1001	PM01		<input type="checkbox"/>		
0150		PAX1	1001	PM01		<input type="checkbox"/>		

MntP Components Rel P... SPack. Insp.c Entry 1

Change General Task List: Maintenance Package Overview

Maintenance package Internal External Header Task list

Group 34 A1-E2C2A-NDI-000 Nondestructive Inspect Grp. ct.1

Operat. overview maint. packages

Op...	Sb...	Operation description	1F	2F	4F	5F	8F	10
0010		Electrically (static) ground aircraft	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0020		Prepare aircraft for ground maintenance	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0030		Prepare Actuator Assembly	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0030	0010	Remove and retain machine bolts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0030	0020	Remove and retain anti-rotation arm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0030	0030	Loosen spanner nut	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0030	0040	Remove Paint	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0030	0050	Clean inspection areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0030	0060	Move rod end of actuator out	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0040		Set up, standardize, and calibrate	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0050		Inspect	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0080		Tag or Reassemble actuator	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Components Rel P... Insp.c... Entry 1

Maintenance Frequency



EQUIPMENT MASTER

Display Equipment: Equipment List

Equipment No	Description	Category	Constr. Year	Object Type	Const Type	Location	Auth. No.	Serial No.	User Status
163027	AIRBORNE EARLY WARNING	10	1987	AEBC	E2C ALLOWABLE BASELINE	VAW-126	CNAL	A120	FMC IN-S
163028	AIRBORNE EARLY WARNING	01	1988			VAW-77	CNRF	A121	FM
161341	AIRBORNE EARLY WARNING	04	1982				A070	FM	
161783	AIRBORNE EARLY WARNING	11	1984				A091	FMC IN-S	
162615	AIRBORNE EARLY WARNING	06	1985				A097	FMC IN-S	
162798	AIRBORNE EARLY WARNING	09	1986				A106	FMC IN-S	
161229	AIRBORNE EARLY WARNING	02	1982				A069	FMC IN-S	
161346	AIRBORNE EARLY WARNING	02	1983				A079	FMC IN-S	
162619	AIRBORNE EARLY WARNING	03	1986				A104	FMC IN-S	
162802	AIRBORNE EARLY WARNING	02	1987				A113	FMC IN-S	
159109	AIRBORNE EARLY WARNING	08	1974			NASC	A016	NMC DEPC	
163535	AIRBORNE EARLY WARNING	05	1988		E2C ALLOWABLE Gp 1 Baseline	FWATS	CNAL	A123	NMC RDTE
163536	AIRBORNE EARLY WARNING	06	1988			GRUMAN A...		A124	FMC IN-S
163851	AIRBORNE EARLY WARNING	09	1989				A132	FMC IN-S	
163537	AIRBORNE EARLY WARNING	08	1988		E2C ALLOWABLE Gp II(C) Coop. Eng...	FWATS		A1...	
163849	AIRBORNE EARLY WARNING	06	1989			GRUMAN A...	A1...		
164109	AIRBORNE EARLY WARNING	01	1991		E2C ALLOWABLE Gp II(M) Mission Co...	FWATS		A1...	
164111	AIRBORNE EARLY WARNING	06	1991			VAW-117	CNAP	A143	FMC IN-S
164112	AIRBORNE EARLY WARNING	08	1991				A144	FMC IN-S	
164352	AIRBORNE EARLY WARNING	10	1991				A145	FMC IN-S	
164355	AIRBORNE EARLY WARNING	04	1992				A148	FMC IN-S	
163698	AIRBORNE EARLY WARNING	07	1990		E2C ALLOWABLE Gp II(N) NAV Upgrade	VAW-115		A138	FMC IN-S
164107	AIRBORNE EARLY WARNING	09	1990				A139	FMC IN-S	
165294	AIRBORNE EARLY WARNING	10	1997				A165	FMC IN-S	
165295	AIRBORNE EARLY WARNING	12	1997				A166	FMC IN-S	
165296	AIRBORNE EARLY WARNING	08	1998				A167	FMC IN-S	
165297	AIRBORNE EARLY WARNING	10	1998			VAW-120	CNAL	A168	FMC IN-S
165300	AIRBORNE EARLY WARNING	04	1999				A171	FMC IN-S	
165302	AIRBORNE EARLY WARNING	03	2000				A175	FMC IN-S	